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DATE MAILED: 09/30/2003

ATTORNEY DOCKET NO. FIRST NAMED INVENTOR CONFIRMATION NO. APPLICATION NO. FILING DATE Gueorgui B. Chkodrov 8897 -09/539,090 03/30/2000 09/30/2003 7590 Leydig Voit & Mayer LTD EXAMINER Two Prudential Plaza KENDALL, CHUCK O **Suite 4900** 180 North Stetson ART UNIT PAPER NUMBER Chicago, IL 60601-6780 2122

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner Chuck O Kendal Chick Chick O Kendal Chick O Kenda	. -		Application No.	Applicant(s)		
Period for Reply A SHORTENEO STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheat with the correspondence address Period for Reply A SHORTENEO STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Estanciase time may be available under the provisions of 3 CTR 1.136(s). In cevent, however, may a roph be timely filled when 20 Kg 3 MONTHS from the mailing date of this communication. Estanciase time may be available under the provisions of 3 CTR 1.136(s). In cevent, however, may a roph be timely filled when 20 Kg 3 MONTHS from the mailing date of this communication. Estanciase transplant term adjustment, Sea 27 CTR 1.704(s). Status 1) [2] Responsive to communication(s) filled on 30 March 2000. 2a) This action is FINAL. 2b) This action is finAl. 2b) This action is finAl. 2b) Instancian is condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s)is/are pending in the application. 4a) Of the above claim(s)is/are withdrawn from consideration. 5) Claim(s)is/are allowed. 6) Claim(s)is/are allowed. 6) Claim(s)is/are subject to restriction and/or election requirement. Application Papers 9) The proposed drawing correction filed onis/are: a) = accepted or b _ objected to by the Examiner. Application Papers 9) The drawing(s) filed onis/are: a) = accepted or b _ objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 1) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). 1) The translation of the foreign languag	4-2	— ,	09/539,090	CHKODROV ET AL.		
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6 Claim(s) 1-24 is/are rejected. 7 Claim(s) is/are objected to. 8 Claim(s) are subject to restriction and/or election requirement. Application Papers 9 The specification is objected to by the Examiner. 10 The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1 Certified copies of the priority documents have been received. 2 Certified copies of the priority documents have been received in Application No 3 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:	4a) Of the above claim(s) is/are withdrawn from consideration.					
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DETAILED ACTION

- 1. This action is in response to the application filed 03/30/00.
- 2. Claims 1-24 have been examined.

Claim Rejections - 35 USC § 102

- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-10,12-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Rose et al. USPN 5,790,861 (hereinafter Rose).

Regarding claims 1,8 &16, Rose anticipates a method (15:37), a computer readable medium (18:23), and of constructing a computer program developed with an object-oriented programming language, comprising the steps of:

declaring a base class as replaceable in a first source file (see Header file, fig. 2, 295, 200, also refer to, 6:61-67)

invoking, in the first source file, an operator to create an object of the base class (fig.2, 200, Header file);

compiling the first source file into a first module, including emitting an instruction to create an object of the base class in response to the invoking of the operator to create in the first source file (fig.2, 210,220 compiled Header file);

defining a replacement class inheriting from the base class in a second source file (fig.2,242, also refer to, 6:31-34);

instructing in the second source file to replace the base class with the replacement class to cause creation of an object of the replacement class when the

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instruction in the first module to create an object of the base class is executed (fig.2, 244);

compiling the second source file into a second module (fig.2, 250); combining the first and second modules in an executable program (fig.2,270).

As per claims 2, 9,10 and 17, method as in claim 1, wherein the object-oriented programming language is the C++ language (6:3).

As per claims 3,14,15 a method as in claim 2, wherein the step of declaring the base class as replaceable includes defining a virtual constructor of the base class (9:46-50).

As per claim 4, a method as in claim 2, further including declaring the replacement class as a replacement of the base class by defining a constructor of the replacement class for replacing the base class (9:62-65, see c++ construct and accessorize).

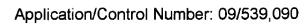
As per claim 5, a method as in claim 1, wherein the step of compiling the second source file includes emitting in the second module an instruction to generate a class replacement record indicating that the replacement class is a replacement of the base class (fig. 2, 295).

As per claim 6, a method as in claim 5, wherein the step of compiling the first source file includes emitting an instruction in the first module to search for a class replacement record concerning the base class (12:10-13, see query and repository).

As per claim 7, a method as in claim 6, wherein the step of compiling the first source listing includes emitting creation information for an object of the base class in the first module, and wherein the step of compiling the second source listing includes emitting creation information for an object of the replacement class in the second module (fig.2, 200, 240).

As per claim 12, a computer-readable medium as in claim 8, wherein the second portion of the source code further includes an instruction to end replacement of the base class with the replacement class (9:60-65, see accessorize and not accessorize).

As per claim 13, a computer-readable medium as in claim 8, wherein the second portion of the source code further includes an instruction to use a function containing



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the instruction in the first portion of the source code to create an object of the base class (6:25-35).

Regarding claim 18, Rose anticipates a computer-readable medium having computer executable instructions and data comprising:

creation information for creating an object of a base class (fig.2, 295); creation information for creating an object of a replacement class derived from the base class (fig.2,200 240, 295);

an instruction to register a replacement relationship between the base class and the replacement class (9:65-67);

an instruction to determine whether a registered replacement relationship between the base class and the replacement class exists upon receiving a request to create an object of the base class (fig.2, 290, see YES or NO);

an instruction to access the creation information for the replacement class upon a determination of existence of the registered replacement relationship between the base class and the replacement class (9:60-67, &10:3-7);

an instruction to create an object of the replacement class using the creation information for the replacement class in response to the request to create an object of the base class (fig.2, 290, 295).

As per claim 19, a computer-readable medium as in claim 18, wherein the instruction to create includes an instruction to call a virtual constructor of the replacement class identified in the creation information for the replacement class (9:46-50).

As per claim 20, a computer-readable medium as in claim 18, further including an instruction to unregister the replacement relationship between the base class and the replacement class (9:60-65, see accessorize and not accessorize).

As per claim 21,a computer-readable medium as in claim 18, further including an instruction to call a virtual destructor of the base class to delete the object of the replacement class (9:46-50).

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Regarding claim 22, Rose anticipates a computer-readable medium having computer executable instructions to performs steps for compiling a source listing in an object-oriented programming language into an executable module, comprising:

upon reading a statement in the source listing defining a first class as replaceable, emitting into the executable module a creation information block for the first class (fig.2, 295);

upon reading a statement in the source listing defining a second class inheriting from a first class as a replacement for the first class, emitting into the executable module a creation information block for the second class, upon reading an instruction in the source listing to replace the first class with the second class, emitting an instruction to store a class replacement record for the first and second classes in a class replacement registration list (10:60-63);

upon reading an instruction in the source listing to create an object of the first class, emitting into the executable module: an instruction to search the class replacement registration list (12:10-13, see query and repository) and to return the pointer to the creation information for the second class if a class replacement record for the first and second classes is found and otherwise return the pointer to the creation information for the first class (8:16, see base class, pointer also see 8:47-51);

an instruction to create an object according to the creation information pointed to by the returned pointer (8:47-51).

As per claim 23, a computer-readable medium as in claim 22, including further computer-executable instructions to perform the step of emitting a virtual destructor for the first class for deleting the object created (9:46-50).

As per claim 24, a computer-readable medium as in claim 22, wherein the object-oriented programming language is the C++ language (6:3).

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Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rose et al. USPN 5,790,861 (hereinafter Rose), as applied in claim 8 in view of, Lewallen USPN 6,385,769 B1.

Regarding claim 11, Rose discloses all the claimed limitations as applied in claim 8 above. Rose doesn't explicitly disclose wherein the object-oriented programming language is an interpreted language. However, Lewallen does disclose this feature in a similar configuration using Java, which is an interpretive language (7:52-55). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Rose and Lewallen because, Java is the preferred OOP language for internet and cross platform use, and is operating system independent.

Correspondence Information

7. Any inquires concerning this communication or earlier communications from the examiner should be directed to Chuck O. Kendall who may be reached via telephone at (703) 308-6608. The examiner can normally be reached Monday through Friday between 8:00 A.M. and 5:00 P.M. est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Dam can be reached at (703) 305-4552.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

For facsimile (fax) send to 703-7467239 official and 703-7467240 draft

Chuck O. Kendall

Software Engineer Patent Examiner

TUAN DAM SUPERVISORY PATENT EXAMINER